Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lens Applications Assignment – Group Copy

***Optical Device Name:***

***Background Information:***

***Ray Diagram***

**S. A. L. T.**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lens Applications Assignment – Group Copy

***Optical Device Name:***

***Background Information:***

***Ray Diagram***

**S. A. L. T.**

Student Instructions – Lens Applications Assignment

In groups of two or three choose one of the following optical devices and give your choice to the teacher. Write your name beside the one that your group chose.

Camera:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The Movie Projector:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The Magnifying Glass:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The Compound Microscope:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The Refracting Telescope:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sheet Entitled “Lens Application Assignment – Group Copy”

***The Categories***

Optical Device Name:

* Write the name of the optical device in the box provided.

Background Information:

* You are providing the background information on your particular optical device. Here are a few suggestions put you are not limited to these:
* When the optical device was first invented.
* What is it used for?
* How it works.
* New advancements or changes that have come about.
* Any disadvantages or limitations to the technology.
* A minimum of two references cited in APA style - Refer to sheet.

Ray Diagram:

* These can be found on pg. 567 -569.
* The diagram **MUST** have the following:
* The type of lens labeled on your diagram (convergent/divergent) and if there are two different lens, label their names ( ie. eyepiece and objective lens).
* The principal focus (F), the secondary principal focus (F′), 2F, 2F′, the principal axis, lens, object and image.
* If there are two images label which one is real and which one is virtual.

S.A.L.T.

* Describe the characteristics of the image using the boxes provided. If there are two images, describe both.